Amendments to the Claims

Please amend Claims 32, 37, 40, 43, 44, 47, 48 and 53. The Claim listing below will replace all prior versions of the claims in the application.

Claim Listing

1-31.   Canceled.

32.   (Currently Amended) A method comprising:

if an amount of data located in a first memory buffer in a local system does not exceed a maximum transfer ~~capacity of a system in which the data is to be transferred in~~ size for a single transfer operation to a remote memory buffer in a remote system:

associating the data with a first transfer operation; and

if the amount of data associated with the first transfer operation has not reached the maximum transfer ~~capacity~~size, associating data located in one or more portions of one or more other memory buffers in the local system with the first transfer operation to the remote memory buffer.

33.   (Previously Presented) The method of claim 32, additionally comprising transferring the data associated with the first transfer operation.

34.   (Previously Presented) The method of claim 33, additionally comprising associating a descriptor with the first transfer operation.

35.   (Previously Presented) The method of claim 32, additionally comprising associating data with one or more subsequent transfer operations.

36.   (Previously Presented) The method of claim 33, wherein the first and one or more subsequent transfer operations are performed in response to one or more RDMA (Remote Direct Memory Access) requests.

37.   (Currently Amended) The method of claim 32, additionally comprising:

if the amount of data located in the first memory buffer exceeds the maximum transfer ~~capacity~~ size:

associating a portion of the data with the first transfer operation; and

associating one or more subsequent portions of the data with one or more subsequent transfer operations.

38.   (Previously Presented) The method of claim 33, additionally comprising:

associating a descriptor with the first transfer operation; and

transferring the data associated with the first transfer operation.

39.   (Currently Amended) The method of claim 38, additionally comprising:

associating ~~a~~ another descriptor with each of the one or more subsequent transfer operations; and

transferring the data associated with the one or more subsequent transfer operations.

40.   (Currently Amended) An apparatus comprising:

an RDMA (remote direct memory access) manager operable to service one or more RDMA requests, and to:

determine if an amount of data located in a first memory buffer in a local system exceeds a maximum transfer ~~capacity of a system in which the data is to be transferred in~~ size for a single transfer operation to a remote memory buffer in a remote system, and:

if it is determined that the amount of data located in a first memory buffer does not exceed the maximum transfer ~~capacity~~ size, then associate the data with a first transfer operation; and

if the amount of data associated with the first transfer operation has not reached the maximum transfer ~~capacity~~ size associate data located in one or more portions of one or more other memory buffers in the local system with the first transfer operation to the remote memory buffer.

41.   (Previously Presented) The apparatus of claim 40, the RDMA manager additionally operable to transfer the data associated with the first transfer operation.

42.   (Previously Presented) The apparatus of claim 40, the RDMA manager additionally operable to associate data with one or more subsequent transfer operations.

43.   (Currently Amended) The apparatus of claim 40, the RDMA manager additionally operable to:

    determine if the amount of data located in the first memory buffer exceeds the maximum transfer ~~capacity~~ size, and:

    if the amount of data located in the first memory buffer exceeds the maximum transfer ~~capacity~~ size:

        associate a portion of the data with the first transfer operation; and

            associate one or more subsequent portions of the data with one or more subsequent transfer operations.

44.   (Currently Amended) A system comprising:

    a host fabric adapter; and

    an RDMA (remote direct memory access) manager included in a software stack of the host fabric adapter, the RDMA manager operable to service one or more RDMA requests, and to:

        determine if an amount of data located in a first memory buffer in a local system exceeds a maximum transfer ~~capacity of a system in which the data is to~~

~~be transferred in~~ size for a single transfer operation to a remote memory buffer in a remote system, and:

if it is determined that the amount of data located in a first memory buffer does not exceed the maximum transfer ~~capacity~~ size, then associate the data with a first transfer operation; and

if the amount of data associated with the first transfer operation has not reached the maximum transfer ~~capacity~~ size associate data located in one or more portions of one or more other memory buffers in the local system with the first transfer operation to the remote memory buffer.

45.   (Previously Presented) The system of claim 44, the RDMA manager additionally operable to transfer the data associated with the first transfer operation.

46.   (Previously Presented) The system of claim 44, the RDMA manager additionally operable to associate data with one or more subsequent transfer operations.

47.   (Currently Amended) The system of claim 44, the RDMA manager additionally operable to:

determine if the amount of data located in the first memory buffer exceeds the maximum transfer ~~capacity~~ size, and:

if the amount of data located in the first memory buffer exceeds the maximum transfer ~~capacity~~ size:

associate a portion of the data with the first transfer operation; and

associate one or more subsequent portions of the data located with one or more subsequent transfer operations.

48.   (Currently Amended) An article comprising a machine-readable medium having machine-accessible instructions, the instructions when executed by a machine result in the following:

if an amount of data located in a first memory buffer in a local system does not exceed a maximum transfer ~~capacity of a system in which the data is to~~

~~be transferred in~~ <u>size for</u> a single transfer operation to a remote memory buffer <u>in a remote system</u>:

    associating the data with a first transfer operation; and

    if the amount of data associated with the first transfer operation has not reached the maximum transfer ~~capacity~~<u>size</u>, associating data located in one or more portions of one or more other memory buffers <u>in the local system</u> with the first transfer operation <u>to the remote memory buffer</u>.

49.   (Previously Presented) The article of claim 48, additionally comprising instructions that result in a machine transferring the data associated with the first transfer operation.

50.   (Previously Presented) The article of claim 49, additionally comprising instructions that result in a machine associating a descriptor with the first transfer operation.

51.   (Previously Presented) The article of claim 48, additionally comprising instructions that result in a machine associating data with one or more subsequent transfer operations.

52.   (Previously Presented) The article of claim 51, wherein the first and one or more subsequent transfer operations are performed in response to one or more RDMA (remote direct memory access) requests.

53.   (Currently Amended) The article of claim 48, additionally comprising instructions that result in a machine:

    determining if the amount of data located in the first memory buffer exceeds the maximum transfer ~~capacity~~<u>size</u>, and:

    if the amount of data located in the first memory buffer exceeds the maximum transfer ~~capacity~~ <u>size</u>:

    associating a portion of the data with the first transfer operation; and

associating one or more subsequent portions of data located in the first memory buffer with a corresponding number of one or more subsequent transfer operations.

54. (Previously Presented) The article of claim 53, additionally comprising instructions that result in a machine:

associating a descriptor with the first transfer operation; and

transferring the data associated with the first transfer operation.

55. (Previously Presented) The article of claim 54, additionally comprising instructions that result in a machine:

associating a descriptor with each of the one or more subsequent transfer operations; and

transferring the data associated with the one or more subsequent transfer operations.